

**WASTE  
PROFILE  
INFORMATION  
FORM**

US EPA RECORDS CENTER REGION 5



439297

If you need help with this form, please consult your Enviro Technical Marketing Representative  
or refer to Instructions for Completing Waste Profile Information Form.

**I. CUSTOMER INFORMATION:**

Name of Generator US EPA/Dayton Electroplate SIC OH 45404  
 Facility Address 1030 Valley St. Dayton  
 Pickup Address Same  
 Primary Contact Steve Ranninger Title OSC Phone 937-223-6768  
 Technical Contact Mark Douglas Title T&D Coord. Phone 947-437-3408  
 Emergency Contact \_\_\_\_\_ After-hours Phone \_\_\_\_\_  
 Parent Company \_\_\_\_\_  
 Generator USEPA ID# OH D 004 278628 Generator State ID# \_\_\_\_\_  
 Customer Address for Invoicing Smith Technology  
2080 S. Carbay Rd. Mt. Prospect IL 60056  
Mark Douglas 847-437-3408

**II. WASTE INFORMATION:**

Generator's Description/Identification of Waste Sodium Sulfite/Sodium Hydro sulfite  
 Physical State at 20°C (68°F) — (Check one box.) ☐ Solid ☒ Powder ☐ Sludge ☐ Liquid

Other Characteristics — (Must complete "Color" and "Number of Phases." Complete others if known.)

Color off white TOX \_\_\_\_\_ ppm BOD \_\_\_\_\_ ppm Percent Free Liquid \_\_\_\_\_  
 Number of Phases 1 Oils/Grease \_\_\_\_\_ ppm TOC \_\_\_\_\_ ppm Flash Point \_\_\_\_\_ °F  
 Percent Solids \_\_\_\_\_ pH \_\_\_\_\_

Generator Storage Method — (Check one box.)

☐ Tank ☐ Roll Off ☐ Dump Trailer ☐ Bags ☒ Drums ☐ Surface Impoundment ☐ Other \_\_\_\_\_

Does this waste contain flammables? ☒ Yes ☐ No Comments Flammable Solid (Hydro Sulfite)

Does this waste have an obvious odor? ☐ Yes ☐ No If "yes," describe \_\_\_\_\_

Does this waste produce any explosive, combustible or toxic gases upon neutralization with lime? ☐ Yes ☐ No

Comments: \_\_\_\_\_

Waste Quantity:

Estimated Volume \_\_\_\_\_ Estimated Frequency \_\_\_\_\_

**SHADED AREA FOR ENVIRO USE ONLY**

STREAM NUMBER _____	DATE ENTERED _____	DATE NEEDED _____
TREATMENT FACILITY: Canton _____	Harvey _____	York _____
TMR _____		

The information provided in this Section will be used by Enviro to verify the waste codes identified in Section IV. Please describe in detail the process which generates this waste. (Include plating activity [i.e., nickel, chrome, copper], raw solutions and base metals being plated.) It is important for this information to describe the process that actually generates the waste, namely the process that first causes the waste to be regulated as hazardous. (Attach additional sheets or diagrams if necessary.)

CERCLA Site Cleanup Virgin product  
found on site

Are other products used in this area which may contaminate the waste (i.e., cleaning solutions or any other chemicals used by maintenance personnel)? ☐ Yes ☒ No If "yes," identify material and attach copy of Material Safety Data Sheet if available.

Material: \_\_\_\_\_

Are paint-stripping operations on site? ☐ Yes ☒ No

Are cyanide-plating operations on site? ☒ Yes ☐ No

#### IV. HAZARDS INFORMATION:

Is the waste a RCRA Hazardous Waste as described per 40 CFR 261 or equivalent state regulations? ☒ Yes ☐ No  
Please identify all EPA Hazardous-Waste Numbers which apply to the waste by placing an "X" in the box next to the codes specified below. In the blank space(s) provided, please specify any (all) other Hazardous-Waste Numbers that apply.

Characteristic Hazardous Wastes		Listed Hazardous Wastes		
<input type="checkbox"/> D001 (Oxidizers)	<input type="checkbox"/> D007 (Chromium)	<input type="checkbox"/> F006	<input type="checkbox"/> K002	<input type="checkbox"/> K007
<input type="checkbox"/> D002 (Corrosive)	<input type="checkbox"/> D008 (Lead)	<input type="checkbox"/> F007	<input type="checkbox"/> K003	<input type="checkbox"/> K008
<input checked="" type="checkbox"/> D003 (Reactive)	<input type="checkbox"/> D009 (Mercury)	<input type="checkbox"/> F008	<input type="checkbox"/> K004	<input type="checkbox"/> K062
<input type="checkbox"/> D004 (Arsenic)	<input type="checkbox"/> D010 (Selenium)	<input type="checkbox"/> F009	<input type="checkbox"/> K005	
<input type="checkbox"/> D005 (Barium)	<input type="checkbox"/> D011 (Silver)	<input type="checkbox"/> F011	<input type="checkbox"/> K006	
<input type="checkbox"/> D006 (Cadmium)		<input type="checkbox"/> F012		
<input type="checkbox"/> Other _____		<input type="checkbox"/> F019	<input type="checkbox"/> Other _____	

Does the waste contain free liquid? ☐ Yes ☒ No

Is the waste subject to Land Disposal Restrictions (LDR) per 40 CFR 268 or its equivalent state regulations? ☒ Yes ☐ No

Does this waste require treatment to conform to Land Disposal Restrictions? ☒ Yes ☐ No ☐ Varies

Per the LDR program's definition, the waste is a: ☐ Wastewater† ☒ Nonwastewater\*\*

Has EP Toxicity, TCLP or any other testing been done? ☐ Yes ☒ No If "yes," please attach a copy of the most recent reports.

Does the liquid portion of the RCRA Hazardous Waste contain nickel  $\geq 134$  mg/l? ☒ No ☐ Yes Specify \_\_\_\_\_ mg/l

Does the liquid portion of the RCRA Hazardous Waste contain thallium  $\geq 130$  mg/l? ☒ No ☐ Yes Specify \_\_\_\_\_ mg/l

If the waste is not a RCRA Hazardous Waste as described by federal or state regulation, is it regulated as a "special waste" in the state from which it is being shipped? ☐ Yes ☐ No ☒ Not Applicable Please provide applicable codes.

\* As determined by Method 9095 (Paint Filter Liquids Test) described in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods." (EPA Publication No. SW-846, 2nd edition)

† "Wastewaters" are wastes that contain less than 1% total organic carbon (TOC) and less than 1% total suspended solids (Nonfilterable Residues Test — Method No. 160.2 Methods for Chemical Analysis of Water and Wastes, EPA — 600/4-79-020, March 1983).

\*\* "Nonwastewaters" are those wastes that do not meet the definition of "Wastewaters."

The waste constituent information may be supplied either on the basis of the generator's knowledge or laboratory analysis. It must be comprehensive, as it will be used to ensure the health and safety of our laboratory personnel and as a comparison to Enviro's analysis of the representative sample submitted. Please address each line entry. Also, note that "TOTAL," not leachable, concentrations are requested below. All unmarked units will be assumed to be mg/kg. If other units are used, please include the proper units with the concentration. If you need help with this section, consult your Enviro Technical Marketing Representative or refer to *Instructions for Completing Waste Profile Information Form*.

**METALS****TOTAL CONCENTRATION**

Aluminum	NA
Arsenic	
Barium	
Beryllium	
Boron	
Cadmium	
Chromium	
Chromium (+6)	
Copper	
Iron	
Lead	
Manganese	
Mercury	
Nickel	
Selenium	
Silver	
Tin	
Zinc	
Other	

**ANIONS****TOTAL CONCENTRATION**

Chloride	NA
Sulfate	
Nitrate	
Fluoride	
Phosphate	

**CHELATING AGENTS****TOTAL CONCENTRATION**

Ammonia	NA
Cyanide Total	
Cyanide Amenable	
Cyanide Leachable	
Other	

**VOLATILE ORGANIC COMPOUNDS****TOTAL CONCENTRATION**

Acrylonitrile (vinyl cyanide)	NA
Benzene	
Bis(chloromethyl) ether	
Methylene chloride	
Methylchloromethyl ether	
Methyl ethyl ketone	
Tetrachloroethylene	
Trichloroethylene	
Vinyl chloride	
Carbon tetrachloride	
Chloroform	
Other	
Other	
Other	

**SEMI-VOLATILE ORGANIC COMPOUNDS****TOTAL CONCENTRATION**

1,2-Diphenylhydrazine	NA
1-Naphthylamine	
2-Naphthylamine	
Anthracene	
Benzidine	
Dioxins	
Ethyleneimine	
N-Nitrosodimethylamine	
p-Nitrosodiphenylamine	
Phenol	
Other	
Other	
Other	

**GENERAL****TOTAL CONCENTRATION**

Asbestos	NA
Carcinogens	
Herbicides	
PCBs	
Pesticides	
Radioactives	
Solvents	
Organometallic Compounds	
Other Sodium Sulfate	75%
Other Sodium Hydroxide	15%
Other	

**VI. TRANSPORTATION INFORMATION:**Proper DOT Shipping Name Waste flammable Solid n.d.s.DOT Hazard Class 4.1 DOT UN/NA Number UN1225Will the temperature of the waste to be transported ever be greater than 110°F? ☐ Yes ☒ No

Comments: \_\_\_\_\_

Are special precautions required at the time of pickup? ☐ Yes ☒ No If "yes," indicate precautions: \_\_\_\_\_Is Envirote handling transportation? ☒ Yes ☐ No ☐ Unresolved If "no," and you know who will be transporting the waste, please complete the following information:

Transporter Name \_\_\_\_\_

Transporter EPA ID# \_\_\_\_\_ State Transporter ID# \_\_\_\_\_

Transporter Contact \_\_\_\_\_ Phone \_\_\_\_\_

After-hours Emergency Contact \_\_\_\_\_ Phone \_\_\_\_\_

**VII. SAMPLING:**Type of Sampler — (Check one box.) ☐ Coliwasa ☐ Sludge Judge ☐ Auger ☒ OtherIs this a composite sample? ☐ Yes ☒ No If "yes," indicate how many samples: \_\_\_\_\_Identify source of sample (e.g., lagoon, tank, etc.) 55-gallon drum

Please submit sample promptly. Organic analyses must be completed within 14 days of sample collection; otherwise, resampling will be necessary.

Date of Sampling 03-06-97 Time of Sampling 12:35 AM/PMSampler's Signature Thomas C CampbellSampler's Name Thomas C CampbellTitle and Affiliation of Sampler START/EE**VIII. CERTIFICATION:**

I hereby avow that any pertinent information that is known by the generator concerning possible hazards has been disclosed in the information contained herein and attached to this form. I certify that I have designated the location point(s) for sample collection and the sample accompanying this document is representative of the waste that will be shipped to Envirote. I confirm that, to the best of my knowledge, all statements and attachments are correct and accurate representations of this waste material.

Signature S. Renninger Title OFCName S. RENNINGER Date 3/6/97

All information submitted on this form and its attachments will be kept confidential within the limits of existing environmental laws and regulations. We suggest that you retain a copy of this form and its attachments for your records.



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## Waste Material Data Sheet

### INSTRUCTIONS

This Waste Material Data Sheet (WMDS) has been specifically designed to provide ENSCO with information necessary to transport, treat, reclaim or dispose of your waste in full compliance with state and federal regulations.

A separate WMDS is required for each waste system. A revised WMDS must be submitted (1) whenever there is a change in the waste stream characteristics or (2) there is a change in state or federal regulations which changes the regulated status of the waste stream or any constituents thereof. The WMDS must be submitted to the Technical Manager and approved through the internal review process, before a Sales Order can be initiated. No material can be received at any ENSCO facility unless confirmed by a unique ENSCO Load Number.

A representative 1 pint sample of the waste stream, collected in accordance with appropriate methods found in "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Method" EPA publication SW-846, must accompany each WMDS that is submitted to ENSCO's laboratory. The sample must be packaged, labeled and shipped to ENSCO's laboratory in accordance with the provisions of 40 CFR 261.4 (d)(2) and applicable USDOT and carrier regulations. The "pull-off" label provided must be completed, signed and attached to the sample container.

**682278** the WMDS number must appear on the label.

Detach the instructions, then complete the form. Return Copy 1 (laboratory copy) with the representative sample to the Technical Manager at the "Primary" ENSCO facility of your choosing. Retain Copy 2 (customer copy) for your records. Return Copy 3 (sales copy) to the appropriate ENSCO Regional Sales Office.

**ANSWERS MUST BE PROVIDED FOR ALL QUESTIONS/ITEMS ON THE ATTACHED FORM.** Remove instruction page (page 1) and print (pen only) or type (12 pitch) the answer or check appropriate boxes so that all pages are clearly legible. If a particular question is not applicable to your waste stream, you may so signify with the response "NA." If you do not know the answer to a particular question, you may so signify with the response "U." NOTE: A response "U" may require ENSCO's Technical Manager to request additional information if the unknown information is considered essential for the proper evaluation of the waste stream. If additional information is submitted to complete an answer, indicate on the form that the additional information is attached as Attachment 1, Attachment 2, etc.

### SPECIAL INSTRUCTION

#### PART A - GENERAL INFORMATION

**ENSCO Customer** - This section is to be completed by the party who has/will contract directly with ENSCO for desired services.

**Customer Contact** - Give the name of the company representative who can be contacted by ENSCO for additional information regarding the waste stream.

**Shipping Facility Information** - This section pertains specifically to the physical location from which the waste will be shipped.

**Invoice, Certification Address** - Please check the appropriate blocks if the addresses listed are applicable. Check invoice address if the address listed is designated for billing by ENSCO. Check certification if the individual's name and address is designated for receipt of ENSCO's Certificate of Destruction, etc. If other addresses are needed, please include them on a separate sheet.

#### PART B - WASTE DESCRIPTION

**Waste Name** - Give a name for the waste that is commonly used at the generating facility and which generally describes the nature or composition of waste.

**Process Description** - Describe the process or source generating the waste. Please be as detailed as possible. If the amount or composition of waste varies, please specify in what way and at what frequency. Note: In accordance with RCRA regulations, ENSCO routinely analyzes incoming shipments. If such analyses indicate a material difference from the information described in the WMDS, ENSCO may be required to reject the shipment.

Please include a Purchase Order Number for your sample evaluation fee. Unless you make other arrangements, your sample will not be processed without a Purchase Order number. If you do not have a formal Purchase Order System, please include a letter of authorization with your sample.

**PART C - GENERAL CHARACTERISTICS**

**Color** - What color is the waste? If it varies, put varies.

**Odor** - If the waste has an odor, describe it as well as possible (sweet, nauseating, onion-like, etc.) Indicate the strength/intensity of the odor by checking appropriate space. Provide any known information, but do not sniff waste to complete this item.

**Phases** - If the waste contains more than one phase or layer, check the appropriate box. In addition, check the box or boxes indicating the physical state of the waste and include a range of each physical state on a volume basis.

**PART D - WASTE MANAGEMENT METHODS**

Indicate the desired method(s). If "Most Appropriate" is indicated the most feasible treatment option at an ENSCO or ENSCO Approved Facility will be utilized. If a specific facility is required, list the company and location. Also, attach a list of any unacceptable or unapproved facilities.

**PART E - SPECIAL HANDLING INFORMATION**

Indicate special handling techniques which should be employed during the transportation and storage of waste. If the waste is incompatible with certain types of containers or will react when it comes into contact with other materials, please indicate. Attach additional information as necessary to fully describe hazards and appropriate safeguards. Absence of hazard information requested under this Part implies that, to your knowledge and belief, there are no hazards or adverse effects associated with the waste.

**PART F - RCRA INFORMATION**

List all applicable waste codes if the waste meets the definition of a hazardous waste. Note: The concentration of each constituent imparting a Toxicity characteristic (40 CFR 261.24) must be provided under Part H (1) and I.

State waste codes and special designations such as California Acutely Hazardous Waste are also recorded in this section.

**PART G - SHIPPING INFORMATION**

**Proper Shipping Description** - If the waste is a hazardous waste or hazardous material as defined in 49 CFR 172, enter the DOT Shipping Name, Hazard Class, ID No., and PG (Packing Group). Check the RQ (Reportable Quantity) box if there is an RQ in a single container of waste. Also, include any required technical descriptions. Note: This information should be consistent with information contained on any manifest covering the shipment of the waste. In this section please include type and size of containers, the average weight per container and anticipated volume of the waste.

MAKE SURE LABEL AND FORM ARE FILLED OUT CORRECTLY AND LABEL IS APPLIED TO SAMPLE CONTAINER.

Detach instructions prior to completing label.

**PART H - PHYSICAL/CHEMICAL PROPERTIES**

**Items 1-11** - Use analytical methods described in SW-846 whenever applicable and ASTM methods in all other cases.

**Item 1** - Check appropriate boxes where applicable. Complete blanks with appropriate concentrations (ppm or %). Only facilities subject to 40 CFR 61 Subpart FF need to address "Affected" or "Controlled" Benzene wastes.

**Items 1 & 11** - Indicate concentrations where applicable.

**Items 2-10** - Check the block that most accurately describes the range of characteristics in question. Also give actual value determined from sample analyses, if available.

**Items 3 & 6** - Applicable only to liquids portions of waste.

**Item 6** - If pH is less than 2 or greater than 12.5, identify constituents imparting this characteristic.

**Item 11** - Analyses must be provided for all constituents identified in 40 CFR 261.24 and for all constituents which cause the waste to be listed in 40 CFR 261, Subpart D. Use the space marked "Other" for metals not specifically listed in Item 11. STLC and TTLC are analysis methods specified by the State of California and only apply to waste manifested to or originating from California. If you know the waste and the process generating the waste are free from constituents listed in Item 11, you will not be required to submit analytical results provided that you place the code "FF" (free from) or "None" in the space next to such constituents.

**PART I - CHEMICAL COMPOSITION**

List each constituent by chemical name and percentage. Do not use abbreviations. Use ranges when possible. Composition must be at least 100%. Indicate the CAS (Chemical Abstract Service) number for each chemical constituent, if available.

NAME OF COMPANY: Dayton Electroplate		
1030 Valley Street		
ADDRESS	STATE OH ZIP 45405	
TELEPHONE 513-223-6768	DATE SAMPLE COLLECTED 03-05-97	DATE SAMPLE SHIPPED 03-05-97
SAMPLE COLLECTED BY Tom Campbell		TITLE START
DESCRIPTION OF SAMPLE		
SHIP SAMPLE TO: Technical Manager ENSCO 300 American Circle El Dorado, AR 71730 1015 New South Harris St. Dalton, GA 30720 1737 East Street Wilmington, CA 90740		I certify that the sample contained herein was collected in accordance with methods approved in SW-846 and is representative of the waste described in ENSCO's.
SIGNATURE Thomas C. Campbell		WASTE MATERIAL DATA SHEET NUMBER No. 682278
CAUTION: LEAVE A MINIMUM OF 2" HEADSPACE WHEN FILLING		

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environmental systems company**Waste Material Data Sheet**

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<input checked="" type="checkbox"/> <b>EL DORADO, AR</b> ENSCO Technical Manager 309 American Circle El Dorado, AR 71730 ARD069748192 (501) 863-7173	<input type="checkbox"/> <b>DALTON, GA</b> ENSCO Technical Manager 1015 New South Harris St. Dalton, GA 30720 GAD000222083 (706) 226-6477	<input type="checkbox"/> <b>WILMINGTON, CA</b> ENSCO WEST INC. Technical Manager 1737 East Denni Wilmington, CA 90744 CAD044429835 (310) 835-0775
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Indicate which ENSCO Facilities may be used and send this WMDS to your choice as primary facility.

**A. General Information**FOR ENSCO USE: Region NER Territory \_\_\_\_\_ENSCO CUSTOMER ☒ Invoice ☐ CertificationSHIPPING FACILITY ☐ Invoice ☒ CertificationContact Mark E. Douglas

Contact \_\_\_\_\_

Customer Name Smith TechnologyShipper Name USEPA/Dayton ElectroplatingAddress 2080 S. Carlsberg Rd.Address 1030 Valley StCity Mt. Prospect ILCity DaytonState IL Zip 60056State OH Zip 45054Phone # 847-437-3400Phone # 937-223-6765

USEPA ID # \_\_\_\_\_

USEPA ID # OHD 004 278621**B. Waste Description** Waste Name \_\_\_\_\_

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Is a representative sample provided? ☒ Yes ☐ No

Source Code A \_\_\_\_\_ Form Code B \_\_\_\_\_

Sample Purchase Order No. 8291

Process Generating Waste SIC # \_\_\_\_\_

Sample may not be processed without P.O. Number.

Process Description CERCLA Site Clean Up**C. General Characteristics** (at 70° F unless otherwise specified)**D. Waste Management Methods**Color \_\_\_\_\_ ☐ Liquid \_\_\_\_\_ %

## PHASES

☐ Incineration OnlyOdor \_\_\_\_\_ ☐ Solid \_\_\_\_\_ %☐ Single Layer☐ Recycle Only☐ None ☐ Strong☐ Sludge \_\_\_\_\_ %☐ Double Layer☐ Fuel Substitution☐ Mild☐ Powder \_\_\_\_\_ %☐ Multi-Layer☐ Most Appropriate Method☐ Gas \_\_\_\_\_ %☐ Specific Facility Only.☐ Wastewater or ☐ Non-Wastewater as defined in 40 CFR 268.2**E. Special Handling Instructions** If special handling techniques are required, specify:**F. RCRA Information**Is this a USEPA hazardous waste? ☒ Yes ☐ No Is this an acutely hazardous waste? (40 CFR 261.30 and 33) ☐ Yes ☐ No

List the USEPA hazardous waste codes, Specify the nature of any D003 waste in section H 1:

D001

List any State Waste Codes or other state designations: \_\_\_\_\_

**G. Shipping Information**DOT Hazardous Material ☒ Yes ☐ No

PROPER SHIPPING DESCRIPTION

Poison Inhalation Hazard ☐ Yes ☒ No☐ RQ Waste Flammable SolidMarine Pollutant ☐ Yes ☒ NoHazard Class 4.1 ID # UN1325 PG II Technical descriptions Sodium Hydro SulfiteAnticipated Volume: 4835 Drums/Containers \_\_\_\_\_ Bulk Liquid/Gallons \_\_\_\_\_ Bulk Solids/Tons \_\_\_\_\_Shipping Frequency: ☒ One Time ☐ Week ☐ Month ☐ Quarter ☐ Other \_\_\_\_\_

Container Size and Type: \_\_\_\_\_ Weight Per Container: \_\_\_\_\_



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## Waste Material Data Sheet

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### H. (1) Hazardous Characteristics and Other Components

*See MSDS*

None of the following characteristics are present unless marked:

- ☐ Fuming/Smoking Waste   ☐ Water Reactive   ☐ Air Reactive   ☐ Explosive   ☐ Pyrophoric   ☐ Shock Sensitive  
☐ Dioxins & Furans   ☐ Ozone Depletion 40 CFR 82   ☐ Affected Benzene Waste   ☐ Radioactive   ☐ Biological   ☐ Asbestos  
☐ Chlorine \_\_\_\_\_ %   ☐ Bromine \_\_\_\_\_ %   ☐ Iodine \_\_\_\_\_ %   ☐ Fluorine \_\_\_\_\_ %  
☐ Cyanides \_\_\_\_\_ (ppm)   ☐ PCB's \_\_\_\_\_ (ppm)   ☐ Sulfides \_\_\_\_\_ (ppm)   ☐ Phenolics \_\_\_\_\_ (ppm)

Metal Objects: ☐ No ☐ Yes - Describe, include dimensions: \_\_\_\_\_

#### (2) Specific Gravity

- ☐ < 0.8  
☐ 0.8 - 1.0  
☐ 1.0 - 1.2  
☐ 1.2 - 1.4  
☐ 1.4 - 1.7  
☐ > 1.7  
\_\_\_\_\_  
(actual)

#### (3) Total Suspended Solids (Wt. %)

- ☐ < 0.5  
☐ 0.5 - 2.0  
☐ 2.0 - 5.0  
☐ 5.0 - 20  
☐ > 20  
\_\_\_\_\_  
(actual)

#### (4) Ash (Wt. %)

- ☐ < 0.1  
☐ 0.1 - 1.0  
☐ 1.0 - 5.0  
☐ 5.0 - 20  
☐ > 20  
\_\_\_\_\_  
(actual)

#### (5) Viscosity (centipoise)

- ☐ 1 - 100  
☐ 100 - 500  
☐ 500 - 10,000  
☐ > 10,000  
\_\_\_\_\_  
(actual)

#### (11) Metals

	<input type="checkbox"/> Total (ppm)	<input type="checkbox"/> TCLP (mg/l)	<input type="checkbox"/> STLC (mg/l)	<input type="checkbox"/> TTLC (mg/kg)
Antimony (Sb)	_____	_____	_____	_____
Arsenic (As)	_____	_____	_____	_____
Barium (Ba)	_____	_____	_____	_____
Beryllium (Be)	_____	_____	_____	_____
Cadmium (Cd)	_____	_____	_____	_____
Chromium (Cr)	_____	_____	_____	_____
Chromium VI (Cr <sup>6+</sup> )	_____	_____	_____	_____
Cobalt (Co)	_____	_____	_____	_____
Copper (Cu)	_____	_____	_____	_____
Lead (Pb)	_____	_____	_____	_____
Mercury (Hg)	_____	_____	_____	_____
Molybdenum (Mo)	_____	_____	_____	_____
Nickel (Ni)	_____	_____	_____	_____
Selenium (Se)	_____	_____	_____	_____
Silver (Ag)	_____	_____	_____	_____
Thallium (Th)	_____	_____	_____	_____
Vanadium (V)	_____	_____	_____	_____
Zinc (Zn)	_____	_____	_____	_____
Other	_____	_____	_____	_____

#### (9) Sulfur (Wt. %)

- ☐ < 0.5  
☐ 0.5 - 2.0  
☐ 2 - 5  
☐ > 5  
\_\_\_\_\_  
(actual)

#### (6) pH

- ☐ < 2  
☐ 2 - 4 (constituent)  
☐ 4 - 6  
☐ 6 - 8  
☐ 8 - 10  
☐ 10 - 12.5  
☐ > 12.5  
\_\_\_\_\_  
(actual)

#### (7) BTU's 1000/lb

- ☐ < 1  
☐ 1 - 5  
☐ 5 - 6  
☐ 6 - 8  
☐ 8 - 12  
☐ 12 - 16  
☐ > 16  
\_\_\_\_\_  
(actual)

#### (8) Flashpoint

- (closed cup °F)  
☐ < 73  
☐ 73 - 100  
☐ 100 - 140  
☐ 140 - 200  
☐ > 200  
\_\_\_\_\_  
(actual)

#### (10) Boiling Pt.

- ☐ < 95° F  
☐ 95 - 100° F  
☐ > 100° F

### I. Chemical Composition (If actual percentages are not known, use ranges.) Total should be at least 100%.

All constituents, including debris, must be specifically identified.

Actual      Range      CAS Number

*See MSDS*

_____	_____ %	_____ - _____ %	_____
_____	_____ %	_____ - _____ %	_____
_____	_____ %	_____ - _____ %	_____
_____	_____ %	_____ - _____ %	_____
_____	_____ %	_____ - _____ %	_____
_____	_____ %	_____ - _____ %	_____
_____	_____ %	_____ - _____ %	_____
_____	_____ %	_____ - _____ %	_____
_____	_____ %	_____ - _____ %	_____
_____	_____ %	_____ - _____ %	_____
_____	_____ %	_____ - _____ %	_____

*St. R.*

AUTHORIZED SIGNATURE

*S. RENNING*

PRINT NAME

*OSC*

TITLE

*3/5/97*

DATE

682278

ENSICO USE ONLY  
☐ EnPak Project #

RECERT DATE

I hereby certify that all information in this and all attached documents is complete and accurate and that all known or suspected hazards, including the presence of metal objects as constituents of the waste, have been disclosed.



**Enthone-OMI Inc.**

a subsidiary of ASARCO

**MATERIAL SAFETY DATA SHEET****ENTHONE****Chlor-ZILL ENTEK 6A**P.O. BOX 1900  
NEW HAVEN, CT 06508

(203) 934-8611

223 - 6768

**24 HOUR EMERGENCY PHONE NUMBERS**  
CHEMTREC 800-424-9300**NON-EMERGENCY PHONE NUMBERS**ENTHONE 203-934-8611  
UDYLITE 313-497-9100  
SEL-REX 313-497-9100**PRODUCT CODES: 2902****DATE ISSUED: 5/7/93****SUPERCEDES: 5/7/90 (Chromakill 6A)****PREPARED: L.T. Harbor****II. HAZARDOUS INGREDIENTS**

COMPONENT	COMMON NAME	CAS NO.	OSHA-PEL	ACGIH-TLV	%
Sodium sulfite		7757-83-7	M	M	>75
Sodium hydrosulfite	Sodium dithionite	7775-14-8	M	M	>15

**III. PHYSICAL PROPERTIES**

SPECIFIC GRAVITY (WATER=1)	NA	BOILING POINT, °F	NA
EVAP. RATE (BUTYL ACETATE=1)	NA	MELTING POINT, °F	NA
VAPOR PRESSURE, mmHg	NA	SOLUBILITY IN WATER	essentially soluble
VAPOR DENSITY (AIR=1)	NA	APPEARANCE	white powder
pH (AS IS)	NA	ODOR	slight sulfur-like

**IV. FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT, °F	NA	FLAMMABLE LIMITS (AIR)	NA	LEL	NA	UEL
-----------------	----	------------------------	----	-----	----	-----

**EXTINGUISHING MEDIA**

☐ Not Combustible ☒ Water fog ☐ Carbon Dioxide ☐ Dry Chemical ☐ Alcohol Foam ☐ Sand or Earth

**SPECIAL FIRE FIGHTING PROCEDURES**

Wear self-contained breathing apparatus (SCBA) and complete personal protective equipment when potential for exposure to vapors or products of combustion exists. Deluge with water because product contains its own oxygen supply.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Exposure temperatures above 125°F may generate toxic oxides of sulfur and sodium oxide. Material is classified as a "flammable solid" by U.S.D.O.T.

**V. HEALTH HAZARD DATA****EFFECTS OF ACUTE EXPOSURE:**

**INHALATION:** Dust may damage upper respiratory tract and lung tissue which may cause chemical pneumonia depending upon severity of exposure.

**INGESTION:** Can cause burns to mouth, throat, esophagus, and stomach.

**SKIN:** Can cause burns.

**EYES:** Can cause severe irritation, damage to eyes.

**EFFECTS OF CHRONIC EXPOSURE:**

Nausea, vomiting, disturbances of the digestive tract, chronic sores, bone fluorosis and possibly osteosclerosis and lung cancer.

**CARCINOGEN:** Not listed by NTP, IARC, OSHA

**REFERENCE:****EMERGENCY AND FIRST AID PROCEDURES**

**INHALATION:** Remove person from contaminated area. If breathing has stopped, resuscitate and administer oxygen if available.  
Seek immediate medical attention.

**INGESTION:** Never give anything by mouth to an unconscious person, obtain immediate medical attention. If vomiting occurs spontaneously, keep airway clear. If swallowed **DO NOT INDUCE VOMITING**, give large amounts of water.  
Seek immediate medical attention.

**SKIN:** Immediately wash contaminated skin with plenty of water for 15 minutes. Remove contaminated clothing and footwear. Wash clothing before reuse. Discard footwear if it cannot be decontaminated.  
Seek immediate medical attention.

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes holding lids apart to ensure flushing of entire surface. Washing eyes within several seconds of exposure is essential to minimize damage.  
Seek immediate medical attention.

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ENTEK® 8A

5/7/93

**VI. PRECAUTIONS FOR SAFE HANDLING AND USE****SPILL PROCEDURES:**

Avoid contact with skin, eyes, and clothing. Wear protective equipment (See section VII). Sweep or shovel spilled material into clean plastic lined container and cover. Flush spill area with copious amounts of water. Dispose of in accordance with Local, State and Federal regulations.

**STORAGE AND HANDLING PRECAUTIONS:**

Store in a cool, dry place. Keep away from acids and oxidizers. Loosen cover cautiously when opening.

**ADDITIONAL INFORMATION:**

Wash thoroughly after handling.

**VII. CONTROL MEASURES**

**VENTILATION:** Local exhaust recommended.

**RESPIRATOR:** Use NIOSH approved respirator when air concentration is greater than the TLV or PEL.  
Use cartridge filter for dusts.

**EYE PROTECTION:** ☐ Safety glasses ☒ Chemical safety goggles ☒ Face shield

**PROTECTIVE GLOVES:** ☒ Neoprene ☒ Natural rubber Other:

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**

Chemically resistant coveralls, hat, and shoes or boots.

**WORKHYGIENIC PRACTICES:**

Emergency eye wash and safety shower should be available. Wash thoroughly after handling.

**ADDITIONAL INFORMATION:**

For waste disposal of operating solutions consult Enthone-QMI Waste Disposal Procedures. For major spills consult Enthone-QMI for disposal assistance. Dispose of in accordance with Local, State, and Federal regulations.

CAS = Chemical Abstract Service

NI = No relevant information available

NA = Not Applicable

Trade Secret = Claimed as allowed under 28 CFR 1810.1200

PEL = OSHA Permissible Exposure Limit

TLV = ACGIH Threshold Limit Value

NTP = National Toxicology Program

IARC = Int'l Agency for Research on Cancer

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ENTEKO 6A

5/7/93

**VIII. REACTIVITY DATA**

<input checked="" type="checkbox"/> Stable	CONDITIONS TO AVOID: Moisture	
<input type="checkbox"/> Unstable		
INCOMPATIBILITY (Materials to avoid): Oxidizing agents, acids, and salts.		
HAZARDOUS DECOMPOSITION PRODUCTS: Decomposes in water generating sulfur dioxide, sulfur trioxide, sodium sulfite, sodium thiosulfite, flammable sodium sulfide		
HAZARDOUS POLYMERIZATION	May occur	CONDITIONS TO AVOID: NA
	<input checked="" type="checkbox"/> Will not occur	

**IX. ADDITIONAL INFORMATION**

This product does not contain any chemicals subject to the reporting requirements of SARA, TITLE III, Section 313 (40CFR372) or known to the State of California to cause cancer or birth defects (to comply with California Statute (Section 25249.8)).

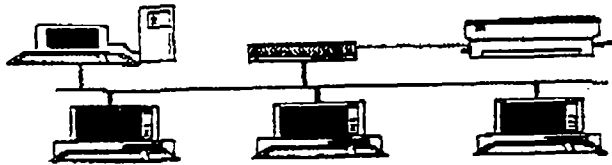
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OB # 8391 JOB NAME:USEPA/Dayton Electroplating

REQUISITIONER: MARK DOUGLAS

TYPE OF WORK : Transportation and Disposal of [REDACTED]

		ENSCO		AETS		Rollins		Envirite			
		847-945-5700		773-646-6660		800-925-2549		330-456-6238			
		Susan Salerno		Pete Gabrek		Lori		Ed Konz			
DESCRIPTION	QTY	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL
Disposal	1 drum 250 lb	\$4.00/lb	\$1000.00	\$4.50/lb	\$1,125.00	\$200.00 min.	\$200.00				
Transportation	1 drum	\$[REDACTED]/drum	[REDACTED]	\$[REDACTED]/drum	[REDACTED]	\$[REDACTED]	[REDACTED]	line Ex 4			
TOTAL			[REDACTED]		[REDACTED]		[REDACTED]	line Ex 4			



## Fax Cover Sheet

To: Ing / Steve  
Company: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_

From: Mark E. Douglas  
Transportation & Disposal Coordinator  
ERCS EPA Region V  
Program Management Office

Company: SMITH TECHNOLOGY CORPORATION  
Construction & Remediation Services  
2080 S. Carboy Road  
Mt. Prospect, Illinois 60056

Phone: 847-437-3408  
ERCS Fax: 847-437-6064

Date: 2-26-97

Number of pages : 8

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### Comments:

I sent that MSDS for the
Hydroxysulfite to ENSCO, Rollins
& AETS (CWM)

# Enthone-OMI Inc.

a subsidiary of ASARCO

## MATERIAL SAFETY DATA SHEET

ENTHONE

P.O. BOX 1900  
NEW HAVEN, CT 06508

(203) 934-8611

Chromekill ENTEK® 6A

### 24 HOUR EMERGENCY PHONE NUMBERS CHEMTREC 800-424-9300

### NON-EMERGENCY PHONE NUMBERS

ENTHONE 203-934-8611  
UDYLITE 313-497-9100  
SEL-REX 313-497-9100

PRODUCT CODE#: 2902

DATE ISSUED: 5/7/93

SUPERCEDES: 5/7/90 (Chromekill 6A)

PREPARER: L.T. Horbal

### II. HAZARDOUS INGREDIENTS

COMPONENT	COMMON NAME	CAS NO.	OSHA-PEL	ACGIH-TLV	%
Sodium sulfite		7757-83-7	NI	NI	>75
Sodium hydrosulfite	Sodium dithionite	7775-14-6	NI	NI	>15

### III. PHYSICAL PROPERTIES

SPECIFIC GRAVITY (WATER=1)	NI	BOILING POINT, °F	NA
EVAP. RATE (BUTYL ACETATE=1)	NA	MELTING POINT, °F	NI
VAPOR PRESSURE, mmHg	NA	SOLUBILITY IN WATER	essentially soluble
VAPOR DENSITY (AIR=1)	NA	APPEARANCE	white powder
pH (AS IS)	NA	ODOR	slight sulfur-like

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-----------------	----	------------------------	----	-----	----	-----

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IARC = Int'l Agency for Research on Cancer

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X	Stable	CONDITIONS TO AVOID:	Moisture
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	X	Will not occur	

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# SMITH TECHNOLOGY CORPORATION

## DAYTON ELECTROPLATE SITE

1030 VALLEY ST.  
DAYTON, OHIO 45404

Jay Hoover (937)223-6765  
Kerry Wallace (937)223-6765

Fax (937)223-6762

TO: Todd R.

FROM: Kerry

DATE: \_\_\_\_\_

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET: 5

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### COMMENTS:

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